

LED PLANAR LIGHT SOURCE AND LOW-PROFILE HEADLIGHT CONSTRUCTED THEREWITH

Abstract of Disclosure

A light source (10) includes a light emitting semiconductor device (12). A support substrate (14) has a generally planar reflective surface (28) that supports the semiconductor device (12). The light emitting semiconductor device heat sinks via the support substrate. A curved reflector (16) has a concave parabolic reflective surface. The light emitting semiconductor device (12) is arranged between the support substrate (14) and the curved reflector (16). The support substrate (14) and the curved reflector (16) together define a light aperture (18) through which light produced by the light emitting semiconductor device (12) passes.

Figures